

11.8

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/886,550	CLARK ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Hien D. Vu	2833	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication on 2/1/06.
2. ☒ The allowed claim(s) is/are 74 and 82-85.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>2/2/06</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material                     | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance                                  |
|  | 9. <input type="checkbox"/> Other _____  |

*Hien Vu*

**HIEN VU  
PRIMARY EXAMINER**

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Frank Carroll on 2/1/06.

The application has been amended as follows:

In the specification:

Page 1, lines 3-4 "This application is ... April 17, 1998." have been changed to -- This application is a continuation of United States application no. 09/160,900, filed September 25, 1998, now U.S. patent no. 6,319,075, which claims the benefit of United States provisional application no. 60/082,091, filed April 17, 1998, all of which are incorporated herein by reference.

In the claims:

74. (currently amended) An electrical connector for power applications, the connector comprising:

- a) an insulative housing;
- b) a cavity disposed in said insulative housing, the cavity defined by a first wall and two spaced apart housing walls that each extend from the first wall; and
- c) a power contact disposed in said cavity, said power contact comprising: a pair of opposed contact walls defined by a first planar panel, a second planar panel, a bridging element adjoining the first and second planar panels, a medial space between the first planar panel and the second planar panel; a first compressible beam that adjoins the first planar panel and extends in a direction generally parallel to one of said two spaced apart housing walls; a second compressible beam that adjoins the second planar panel and extends in a direction generally parallel to one of said two spaced

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apart housing walls, the first and second compressible beams extending outwardly away from each other and inwardly toward each other; and separated contact terminals that extend from the first planar panel and the second planar panel in a direction perpendicular to the first compressible beam and the second compressible beam and generally parallel to one of said two spaced apart housing walls,

wherein at least one portion of the first planar panel and the second planar panel is spaced from an adjacent one of said housing walls such that heat dissipation can also occur from an exterior surface of the power contact.

75-81. (canceled)

82. (currently amended) The electrical connector of claim 74, wherein [[said]] a heat dissipation channel defined by one of the first and second planar panels and the adjacent one of the housing walls is fluidly connected to [[said]] a heat dissipation through-hole defined by the housing.

83. (currently amended) The electrical connector of claim 74, further comprising a lateral positioning element for spacing one of the first and second planar panels from one of the ~~of the~~ two spaced apart housing walls.

84. (previously presented) The electrical connector of claim 83, wherein said lateral positioning element extends from one of said two spaced apart walls.

85. (currently amended) A connector system, comprising:

(A) a connector, comprising:

a) an insulative housing;

b) a plurality of cavities disposed in said insulative housing defined by a series of housing walls; and

c) a power contact disposed in each one of said plurality of cavities, said power contact comprising a pair of opposed contact walls defined by a first planar

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panel, a second planar panel, a medial space between the first planar panel and the second planar panel, a first flexible beam extending from the first planar panel, and a second flexible beam extending from the second planar panel, the first and second flexible beams extending outwardly away from each other and inwardly toward each other;

wherein heat dissipation can occur from interior contact surfaces by passage of air in the medial space; and

wherein at least one portion of the first planar panel and the second planar panel is spaced from an adjacent housing wall such that heat dissipation can also occur from an exterior contact surface; and

(B) a mating connector, comprising:

a) an insulative housing;

b) a plurality of cavities disposed in said insulative housing of the mating connector, the cavities being defined by a series of housing walls; and

c) a plurality of receptacle contacts for receiving the first and second flexible beams of respective ones of the power contacts, each of the receptacle contacts being disposed in a respective one of said plurality of cavities disposed in said insulative housing of the mating connector, each of said receptacle contacts comprising a pair of opposed contact walls defined by a first planar panel, a second planar panel, and a medial space between the first planar panel and the second planar panel of the receptacle contact, each of said receptacle contacts further comprising a bridging element adjoining the first and second planar panels of the receptacle contact;

wherein heat dissipation can occur from interior contact surfaces of the receptacle contacts by passage of air in the medial spaces of the receptacle contacts; and

wherein at least one portion of the first planar panel and the second planar panel of each of the receptacle contacts is spaced from an adjacent housing wall of the mating connector such that heat dissipation can also occur from an exterior contact surface of the receptacle contact.

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86. (canceled)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien D. Vu whose telephone number is 571-272-2016.

The examiner can normally be reached on 9-5.



**HIEN VU  
PRIMARY EXAMINER**

HV  
2/2/06